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L3	0	Bayesian and jury and demographic	US-PGPUB; USPAT	OR	OFF	2004/12/23 12:36
L4	4	Bayesian and jury and database	US-PGPUB; USPAT	OR	OFF	2004/12/23 12:36
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1 A graphical model for protein secondary structure prediction
Wei Chu, Zoubin Ghahramani, David L. Wild
July 2004 **Twenty-first international conference on Machine learning**

Full text available: 📄 pdf(366.19 KB)   Additional Information: full citation, abstract, references

> In this paper, we present a graphical model for protein secondary structure prediction. This model extends segmental semi-Markov models (SSMM) to exploit multiple sequence alignment profiles which contain information from evolutionarily related sequences. A novel parameterized model is proposed as the likelihood function for the SSMM to capture the segmental conformation. By incorporating the information from long range interactions in ß-sheets, this model is capable of carrying out infere ...

2 The interaction of knowledge sources in word sense disambiguation
Mark Stevenson, Yorick Wilks
September 2001 **Computational Linguistics**, Volume 27 Issue 3

Full text available: 📄 pdf(2.16 MB) 📑 Additional Information: full citation, abstract, references
Publisher Site

> Word sense disambiguation (WSD) is a computational linguistics task likely to benefit from the tradition of combining different knowledge sources in artificial in telligence research. An important step in the exploration of this hypothesis is to determine which linguistic knowledge sources are most useful and whether their combination leads to improved results. We present a sense tagger which uses several knowledge sources. Tested accuracy exceeds 94% on our evaluation corpus.Our system attempts ...

3 Research track posters: Privacy-preserving Bayesian network structure computation on distributed heterogeneous data
Rebecca Wright, Zhiqiang Yang
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 📄 pdf(217.22 KB)   Additional Information: full citation, abstract, references, index terms

> As more and more activities are carried out using computers and computer networks, the amount of potentially sensitive data stored by business, governments, and other parties increases. Different parties may wish to benefit from cooperative use of their data, but privacy regulations and other privacy concerns may prevent the parties from sharing their data. Privacy-preserving data mining provides a solution by creating distributed data mining algorithms in which the underlying data is not reveal ...

Keyw rds: Bayesian network, distributed databases, privacy-preserving data mining

4 KDD-99 conference reports: Profiling your customers using Bayesian networks   ▭

Paola Sebastiani, Marco Ramoni, Alexander Crea

January 2000 **ACM SIGKDD Explorations Newsletter,** Volume 1 Issue 2

Full text available: 📄 pdf(1.22 MB)   Additional Information: full citation, abstract

This report describes a complete Knowledge Discovery session using Bayesware Discoverer, a program for the induction of Bayesian networks from incomplete data. We build two causal models to help an American Charitable Organization understand the characteristics of respondents to direct mail fund raising campaigns. The first model is a Bayesian network induced from the database of 96,376 Lapsed donors to the June '97 renewal mailing. The network describes the dependency of the probability of resp ...

Keywords: Bayesian networks, customer profiling, missing data

5 Web search 1: Searching web databases by structuring keyword-based queries   ▭

Pável Calado, Altigran S. da Silva, Rodrigo C. Vieira, Alberto H. F. Laender, Berthier A. Ribeiro-Neto

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management** .

Full text available: 📄 pdf(204.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

On-line information services have become widespread in the Web nowadays. However, Web users are non-specialized and have a great variety of interests. Thus, interfaces for Web databases must be simple and uniform. In this paper we present an approach, based on Bayesian networks, for querying Web databases using keywords only. According to this approach, the user inputs a query through a simple search-box interface. From the input query, one or more plausible structured queries are derived and su ...

Keywords: query structuring, structured queries, web databases

6 Poster: Bayesian face recognition using Gabor features   ▭

Xiaogang Wang, Xiaoou Tang

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**

Full text available: 📄 pdf(512.87 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we propose a new face recognition approach combining a Bayesian probabilistic model and Gabor filter responses. Since both the Bayesian algorithm and the Gabor features can reduce intrapersonal variation through different mechanisms, we integrate the two methods to take full advantage of both approaches. The efficacy of the new method is demonstrated by the experiments on 1180 face images from the XM2VTS database and 1260 face images from the AR database.

Keywords: Bayesian analysis, Gabor Wavelet, face recognition

7 Poster papers: Mining complex models from arbitrarily large databases in constant time   ▭

Geoff Hulten, Pedro Domingos

July 2002 **Pr ceedings f the eighth ACM SIGKDD internati nal c nference n Kn wledge disc very and data mining**

Full text available: 📄 pdf(853.58 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this paper we propose a scaling-up method that is applicable to essentially any induction algorithm based on discrete search. The result of applying the method to an algorithm is that its running time becomes independent of the size of the database, while the decisions made are essentially identical to those that would be made given infinite data. The method works within pre-specified memory limits and, as long as the data is iid, only requires accessing it sequentially. It gives anytime resu ...

Keywords: Bayesian networks, Hoeffding bounds, discrete search, scalable learning algorithms, subsampling

8 A Bayesian decision model for cost optimal record matching

V. S. Verykios, G. V. Moustakides, M. G. Elfeky

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Full text available: 📄 pdf(180.87 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

In an error-free system with perfectly clean data, the construction of a global view of the data consists of linking - in relational terms, joining - two or more tables on their key fields. Unfortunately, most of the time, these data are neither carefully controlled for quality nor necessarily defined commonly across different data sources. As a result, the creation of such a global data view resorts to approximate joins. In this paper, an optimal solution is proposed for the matching or the lin ...

Keywords: Cost optimal statistical model, Data cleaning, Record linkage

9 Task clustering and gating for bayesian multitask learning

Bart Bakker, Tom Heskes

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: 📄 pdf(229.33 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Modeling a collection of similar regression or classification tasks can be improved by making the tasks 'learn from each other'. In machine learning, this subject is approached through 'multitask learning', where parallel tasks are modeled as multiple outputs of the same network. In multilevel analysis this is generally implemented through the mixed-effects linear model where a distinction is made between 'fixed effects', which are the same for all tasks, and 'random effects', which may vary bet ...

10 Research track papers: Interestingness of frequent itemsets using Bayesian networks as background knowledge

Szymon Jaroszewicz, Dan A. Simovici

August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 📄 pdf(191.90 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The paper presents a method for pruning frequent itemsets based on background knowledge represented by a Bayesian network. The interestingness of an itemset is defined as the absolute difference between its support estimated from data and from the Bayesian network. Efficient algorithms are presented for finding interestingness of a collection of frequent itemsets, and for finding all attribute sets with a given minimum interestingness. Practical usefulness of the algorithms and their efficiency ...

Keyw rds: Bayesian network, association rule, background, frequent itemset, interestingness, knowledge

11 Industry track papers: On the potential of domain literature for clustering and Bayesian network learning

Peter Antal, Patrick Glenisson, Geert Fannes

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, index terms

Thanks to its increasing availability, electronic literature can now be a major source of information when developing complex statistical models where data is scarce or contains much noise. This raises the question of how to integrate information from domain literature with statistical data. Because quantifying similarities or dependencies between variables is a basic building block in knowledge discovery, we consider here the following question. Which vector representations of text and which st ...

Keywords: Bayesian networks, clustering, data mining, text mining

12 Research track papers: A Bayesian network framework for reject inference

Andrew Smith, Charles Elkan

August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(201.00 KB)   Additional Information: full citation, abstract, references, index terms

Most learning methods assume that the training set is drawn randomly from the population to which the learned model is to be applied. However in many applications this assumption is invalid. For example, lending institutions create models of who is likely to repay a loan from training sets consisting of people in their records to whom loans were given in the past; however, the institution approved loan applications previously based on who was thought unlikely to default. Learning from only appro ...

Keywords: Bayesian networks, Heckman estimator, expectation-maximization, propensity scores, reject inference, sample selection bias

13 Posters: Combining speech and haptics for intuitive and efficient navigation through image databases

Thomas Käster, Michael Pfeiffer, Christian Bauckhage

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**

Full text available: pdf(239.65 KB)   Additional Information: full citation, abstract, references, index terms

Given the size of todays professional image databases, the stan-dard approach to object- or theme-related image retrieval is to in-teractively navigate through the content. But as most users of such databases are designers or artists who do not have a technical back-ground, navigation interfaces must be intuitive to use and easy to learn. This paper reports on efforts towards this goal. We present a system for intuitive image retrieval that features different moda-lities for interaction. Apart f ...

Keyw rds: content-based image retrieval, fusion of haptics, multimodal interface evaluation, speech, vision processing

14 Context-specific Bayesian clustering for gene expression data

Yoseph Barash, Nir Friedman

April 2001 **Pr ceedings f the fifth annual internati nal c nference n C mputati nal bi l gy**

Full text available: pdf(233.32 KB) 　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The recent growth in genomic data and measurement of genome-wide expression patterns allows to examine gene regulation by transcription factors using computational tools. In this work, we present a class of mathematical models that help in understanding the connections between transcription factors and functional classes of genes based on genetic and genomic data. These models represent the joint distribution of transcription factor binding sites and of expression levels of a gene in a single ...

15 Classification and browsing: Structuring keyword-based queries for web databases

Rodrigo C. Vieira, Pavel Calado, Altigran S. da Silva, Alberto H. F. Laender, Berthier A. Ribeiro-Neto

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(116.95 KB) 　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper describes a framework, based on Bayesian belief networks, for querying Web databases using keywords only. According to this framework, the user inputs a query through a simple search-box. From the input query, one or more plausible structured queries are derived and submitted to Web databases. The results are then retrieved and presented to the user as ranked answers. To evaluate our framework, an experiment using 38 example queries was carried out. We found out that 97% of the time, ...

Keywords: bayesian belief networks, web databases, web query

16 Scalable algorithms for mining large databases

Rajeev Rastogi, Kyuseok Shim

August 1999 **Tutorial notes of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(4.11 MB) 　Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

17 Special issue on the fusion of domain knowledge with data for decision support: Fusion of domain knowledge with data for structural learning in object oriented domains

Helge Langseth, Thomas D. Nielsen

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(227.18 KB) 　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

When constructing a Bayesian network, it can be advantageous to employ structural learning algorithms to combine knowledge captured in databases with prior information provided by domain experts. Unfortunately, conventional learning algorithms do not easily incorporate prior information, if this information is too vague to be encoded as properties that are local to families of variables. For instance, conventional algorithms do not exploit prior information about repetitive structures, which are ...

18 Selectivity estimation using probabilistic models

Lise Getoor, Benjamin Taskar, Daphne Koller

May 2001 **ACM SIGMOD Rec rd , Pr ceedings f the 2001 ACM SIGMOD internati nal c nference n Management f data**, Volume 30 Issue 2

Full text available: 　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

pdf(525.74 KB)   terms

Estimating the result size of complex queries that involve selection on multiple attributes and the join of several relations is a difficult but fundamental task in database query processing. It arises in cost-based query optimization, query profiling, and approximate query answering. In this paper, we show how probabilistic graphical models can be effectively used for this task as an accurate and compact approximation of the joint frequency distribution of multiple attributes across multiple ...

19 Queries and aggregation: Cleaning and querying noisy sensors

Eiman Elnahrawy, Badri Nath
September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Full text available: pdf(256.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

Sensor networks have become an important source of data with numerous applications in monitoring various real-life phenomena as well as industrial applications and traffic control. Unfortunately, sensor data is subject to several sources of errors such as noise from external sources, hardware noise, inaccuracies and imprecision, and various environmental effects. Such errors may seriously impact the answer to any query posed to the sensors. In particular, they may yield imprecise or even incorre ...

Keywords: bayesian theory, noisy sensors, query evaluation, statistics, uncertainty, wireless sensor networks

20 Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan
August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases,**
Volume 7 Issue 3

Full text available: pdf(281.37 KB)   Additional Information: full citation, abstract, citings, index terms

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

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21 The use of lexicons in information retrieval in legal databases
J. C. Smith
June 1997 **Proceedings of the sixth international conference on Artificial intelligence and law**
Full text available: 🔲 pdf(1.70 MB)   Additional Information: full citation, references, index terms

22 Industrial/government track: Empirical Bayesian data mining for discovering patterns in post-marketing drug safety
David M. Fram, June S. Almenoff, William DuMouchel
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: 🔲 pdf(461.25 KB)   Additional Information: full citation, abstract, references, index terms

Because of practical limits in characterizing the safety profiles of therapeutic products prior to marketing, manufacturers and regulatory agencies perform post-marketing surveillance based on the collection of adverse reaction reports ("pharmacovigilance").The resulting databases, while rich in real-world information, are notoriously difficult to analyze using traditional techniques. Each report may involve multiple medicines, symptoms, and demographic factors, and there is no easily linked inf ...

Keywords: association rules, data mining, empirical Bayes methods, pharmacovigilance, post-marketing surveillance

23 Special issue on the fusion of domain knowledge with data for decision support: Combining knowledge from different sources in causal probabilistic models
Marek J. Druzdzel, Francisco J. Díez
December 2003 **The Journal of Machine Learning Research**, Volume 4
Full text available: 🔲 pdf(140.32 KB)   Additional Information: full citation, abstract, references, index terms

Building probabilistic and decision-theoretic models requires a considerable knowledge engineering effort in which the most daunting task is obtaining the numerical parameters. Authors of Bayesian networks usually combine various sources of information, such as textbooks, statistical reports, databases, and expert judgement. In this paper, we demonstrate the risks of such a combination, even when this knowledge encompasses such seemingly population-independent characteristics as sensitivity and ...

24 Knowledge discovery in databases: tools and techniques

Peggy Wright

November 1998 **Cr ssr ads**, Volume 5 Issue 2

Full text available: [html(28.84 KB)](#)   Additional Information: full citation, index terms

25 Learning Bayesian classification rules through genetic algorithms

Christoph F. Eick, Daw Jong

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Full text available: [pdf(848.77 KB)](#)   Additional Information: full citation, references, index terms

26 Reports from KDD-2001: KDD Cup 2001 report

Jie Cheng, Christos Hatzis, Hisashi Hayashi, Mark-A. Krogel, Shinichi Morishita, David Page, Jun Sese

January 2002 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 2

Full text available: [pdf(1.96 MB)](#)   Additional Information: full citation, abstract, references, citings

This paper presents results and lessons from KDD Cup 2001. KDD Cup 2001 focused on mining biological databases. It involved three cutting-edge tasks related to drug design and genomics.

Keywords: Competition, biology, drug design, genomics

27 Automatically structured and translated queries: The effectiveness of automatically structured queries in digital libraries

Marcos André Gonçalves, Edward A. Fox, Aaron Krowne, Pável Calado, Alberto H. F. Laender, Altigran S. da Silva, Berthier Ribeiro-Neto

June 2004

Full text available: [pdf(295.40 KB)](#)   Additional Information: full citation, abstract, references, index terms

Structured or fielded metadata is the basis for many digital library services, including searching and browsing. Yet, little is known about the impact of using structure on the effectiveness of such services. In this paper, we investigate a key research question: do structured queries improve effectiveness in DL searching? To answer this question, we empirically compared the use of unstructured queries to the use of structured queries. We then tested the capability of a simple Bayesian network s ...

Keywords: bayesian networks, digital libraries, structured queries

28 Tutorial database mining

Rakesh Agrawal

May 1994 **Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles f database systems**

Full text available: [pdf(123.97 KB)](#)   Additional Information: full citation, abstract, references, index terms

We view database mining as the efficient construction and verification of models of patterns embedded in large databases. Many of the database mining problems have been motivated by the practical decision support problems faced by most large retail organizations. In the Quest project at the IBM Almaden Research center, we have focussed on three classes of

database mining problems involving classification, associations, and sequences. In this tutorial, I will draw upon my Quest experience to ...

29 The true lift model: a novel data mining approach to response modeling in database marketing
Victor S. Y. Lo
December 2002 **ACM SIGKDD Explorations Newsletter,** Volume 4 Issue 2

Full text available: pdf(119.81 KB)   Additional Information: full citation, abstract, references

In database marketing, data mining has been used extensively to find the optimal customer targets so as to maximize return on investment. In particular, using marketing campaign data, models are typically developed to identify characteristics of customers who are most likely to respond. While these models are helpful in identifying the likely responders, they may be targeting customers who have decided to take the desirable action or not regardless of whether they receive the campaign contact (e ...

Keywords: customer development, customer relationship management, data mining, database marketing, interaction effect, knowledge discovery, predictive modeling, response modeling, treatment effect, true lift, upselling and cross-selling

30 The psychology of multimedia databases
Mark G. L. M. van Doorn, Arjen P. de Vries
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available: pdf(1.43 MB)   Additional Information: full citation, abstract, references, citings, index terms

Multimedia information retrieval in digital libraries is a difficult task for computers in general. Humans on the other hand are experts in perception, concept representation, knowledge organization and memory retrieval. Cognitive psychology and science describe how cognition works in humans, but can offer valuable clues to information retrieval researchers as well. Cognitive psychologists view the human mind as a general-purpose Ysymbol-processing system that interacts with the ...

Keywords: Marr's theory of perception, Paivio's dual coding theory, cognitive psychology and information retrieval, user and domain knowledge in query formulation

31 Accepted Posters: Information filtering using bayesian networks: effective user interfaces for aviation weather data
Corinne Clinton Ruokangas, Ole J. Mengshoel
January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**

Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

Weather is a complex, dynamic process with tremendous impact on aviation. While pilots often have access to large amounts of aviation weather data, they find it difficult and time-consuming to identify weather hazards, due to the sheer amount and cryptic formatting of the data. To address this challenge, we have developed information filtering concepts based on a unified Bayesian network model, integrating text and graphical weather data in the context of specific mission, equipment and personal ...

Keyw rds: bayesian models, bayesian networks, data filtering, information management, intelligent visualization, situation awareness

32 A Bayesian approach toward active learning for collaborative filtering

Rong Jin, Luo Si

July 2004 **Pr ceedings f the 20th c nference n Uncertainty in artificial intelligence**

Full text available: pdf(378.07 KB)   Additional Information: full citation, abstract, references

> Collaborative filtering is a useful technique for exploiting the preference patterns of a group
> of users to predict the utility of items for the active user. In general, the performance of
> collaborative filtering depends on the number of rated examples given by the active user.
> The more the number of rated examples given by the active user, the more accurate the
> predicted ratings will be. Active learning provides an effective way to acquire the most
> informative rated examples from active user ...

33 Video retrieval: Semi-supervised learning for facial expression recognition

Ira Cohen, Nicu Sebe, Fabio G. Cozman, Thomas S. Huang

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on
Multimedia information retrieval**

Full text available: pdf(341.70 KB)   Additional Information: full citation, abstract, references, index terms

> Automatic classification by machines is one of the basic tasks required in any pattern
> recognition and human computer interaction applications. In this paper, we discuss training
> probabilistic classifiers with labeled and unlabeled data. We provide an analysis which
> shows under what conditions unlabeled data can be used in learning to improve
> classification performance. We discuss the implications of this analysis to a specific type of
> probabilistic classifiers, Bayesian networks, and propose a ...

> **Keywords**: Bayesian networks, facial expression recognition, semi-supervised learning

34 Optimal sample cost residues for differential database batch query problems

Dan E. Willard

January 1991 **Journal of the ACM (JACM),** Volume 38 Issue 1

Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, citings, index
terms, review

> In many computing applications, there are several equivalent algorithms capable of
> performing a particular task, and no one is the most efficient under all statistical
> distributions of the data. In such contexts, a good heuristic is to take a sample of the
> database and use it to guess which procedure is likely to be the most efficient. This paper
> defines the very general notion of a differentiable query problem and shows that the ideal
> sample size for guessing the optimal choice of algorith ...

> **Keywords**: databases, sampling

35 Analysis methodology: Simulation of large networks: propagation of uncertainty in a
simulation-based maritime risk assessment model utilizing Bayesian simulation
techniques

Jason R. W. Merrick, Varun Dinesh, Amita Singh, J. René van Dorp, Thomas A. Mazzuchi

December 2003 **Proceedings of the 35th conference on Winter simulation: driving
innovation**

Full text available: pdf(606.38 KB)   Additional Information: full citation, abstract, references

> Recent studies in the assessment of risk in maritime transportation systems have used
> simulation-based probabilistic techniques. Amongst them are the San Francisco Bay (SFB)
> Ferry exposure assessment in 2002, the Washington State Ferry (WFS) Risk Assessment in
> 1998 and the Prince William Sound (PWS) Risk Assessment in 1996. Representing
> uncertainty in such simulation models is fundamental to quantifying system risk. This paper

illustrates the representation of uncertainty in simulation using ...

36 Applying general Bayesian techniques to improve TAN induction
Jesús Cerquides
August 1999 **Pr ceedings f the fifth ACM SIGKDD internati nal c nference n
          Kn wledge disc very and data mining**
Full text available: pdf(515.13 KB)   Additional Information: full citation, references, citings, index terms

37 Content-based filtering & collaborative filtering: A nonparametric hierarchical bayesian
framework for information filtering
Kai Yu, Volker Tresp, Shipeng Yu
July 2004 **Proceedings of the 27th annual international conference on Research and
          development in information retrieval**
Full text available: pdf(425.46 KB)   Additional Information: full citation, abstract, references, index terms

Information filtering has made considerable progress in recent years. The predominant
approaches are content-based methods and collaborative methods. Researchers have
largely concentrated on either of the two approaches since a principled unifying framework
is still lacking. This paper suggests that both approaches can be combined under a
hierarchical Bayesian framework. Individual content-based user profiles are generated and
collaboration between various user models is achieved via a co ...

Keywords: collaborative filtering, content-based filtering, dirichlet process, nonparametric
bayesian modelling

38 Probabilistic object bases
Thomas Eiter, James J. Lu, Thomas Lukasiewicz, V. S. Subrahmanian
September 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 3
Full text available: pdf(663.73 KB)   Additional Information: full citation, abstract, references, index terms

Although there are many applications where an object-oriented data model is a good way of
representing and querying data, current object database systems are unable to handle
objects whose attributes are uncertain. In this article, we extend previous work by
Kornatzky and Shimony to develop an algebra to handle object bases with uncertainty. We
propose concepts of consistency for such object bases, together with an NP-completeness
result, and classes of probabilistic object bases for which consi ...

Keywords: Consistency, object-oriented database, probabilistic object algebra,
probabilistic object base, probability, query language, query optimization

39 A retrieval model incorporating hypertext links
W. B. Croft, H. Turtle
November 1989 **Proceedings of the second annual ACM conference on Hypertext**
Full text available: pdf(769.84 KB)   Additional Information: full citation, references, citings, index terms

40 Propositional and relational Bayesian networks associated with imprecise and
qualitative probabilistic assessments
Fabio Gagliardi Cozman, Cassio Polpo de Campos, Jaime Shinsuke Ide, José Carlos Ferreira da
Rocha
July 2004 **Pr ceedings f the 20th c nference n Uncertainty in artificial intelligence**

Full text available: ⬚ pdf(340.75 KB)   Additional Information: full citation, abstract, references

This paper investigates a representation language with flexibility inspired by probabilistic logic and compactness inspired by relational Bayesian networks. The goal is to handle propositional and first-order constructs together with precise, imprecise, indeterminate and qualitative probabilistic assessments. The paper shows how this can be achieved through the theory of credal networks. New exact and approximate inference algorithms based on multilinear programming and iterated/loopy propaga ...

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41 Pac-bayesian generalisation error bounds for gaussian process classification   ▭

Matthias Seeger
March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: 🗎 pdf(487.11 KB)   Additional Information: full citation, abstract, references, index terms

Approximate Bayesian Gaussian process (GP) classification techniques are powerful non-parametric learning methods, similar in appearance and performance to support vector machines. Based on simple probabilistic models, they render interpretable results and can be embedded in Bayesian frameworks for model selection, feature selection, etc. In this paper, by applying the PAC-Bayesian theorem of McAllester (1999a), we prove distribution-free generalisation error bounds for a wide range of approxima ...

Keywords: Bayesian learning, Gaussian processes, Gibbs classifier, Kernel machines, PAC-Bayesian framework, convex duality, generalisation error bounds, sparse approximations

42 Learning equivalence classes of bayesian-network structures   ▭

David Maxwell Chickering
March 2002 **The Journal of Machine Learning Research**, Volume 2

Full text available: 🗎 pdf(442.83 KB)   Additional Information: full citation, abstract, references, citings, index terms

Two Bayesian-network structures are said to be equivalent if the set of distributions that can be represented with one of those structures is identical to the set of distributions that can be represented with the other. Many scoring criteria that are used to learn Bayesian-network structures from data are score equivalent; that is, these criteria do not distinguish among networks that are equivalent. In this paper, we consider using a score equivalent ...

43 A hierarchical access control model for video database systems   ▭

Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu
April 2003 **ACM Transacti ns n Inf rmati n Systems (TOIS)**, Volume 21 Issue 2

Full text available: 🗎 pdf(6.27 MB)   Additional Information: full citation, abstract, references, index terms

Content-based video database access control is becoming very important, but it depends on the progresses of the following related research issues: (a) efficient video analysis for supporting semantic visual concept representation; (b) effective video database indexing

structure; (c) the development of suitable video database models; and (d) the development of access control models tailored to the characteristics of video data. In this paper, we propose a novel approach to support multilevel acce ...

Keyw rds: Video database models, access control, indexing schemes

44 QProber: A system for automatic classification of hidden-Web databases

Luis Gravano, Panagiotis G. Ipeirotis, Mehran Sahami
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available: pdf(3.62 MB)   Additional Information: full citation, abstract, references, index terms

The contents of many valuable Web-accessible databases are only available through search interfaces and are hence invisible to traditional Web "crawlers." Recently, commercial Web sites have started to manually organize Web-accessible databases into Yahoo!-like hierarchical classification schemes. Here we introduce QProber, a modular system that automates this classification process by using a small number of query probes, generated by document classifiers. QProber can use a variety of types of ...

Keywords: Database classification, Web databases, hidden Web

45 Probabilistic temporal databases, I: algebra

Alex Dekhtyar, Robert Ross, V. S. Subrahmanian
March 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 1

Full text available: pdf(878.03 KB)   Additional Information: full citation, abstract, references, citings, index terms

Dyreson and Snodgrass have drawn attention to the fact that, in many temporal database applications, there is often uncertainty about the start time of events, the end time of events, and the duration of events. When the granularity of time is small (e.g., milliseconds), a statement such as "Packet p was shipped sometime during the first 5 days of January, 1998" leads to a massive amount of uncertainty ($5 \times 24 \times 60 \times 60 \times 1000$) possibilities. A ...

46 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

47 Lossless Online Bayesian Bagging

Herbert K. H. Lee, Merlise A. Clyde

August 2004 **The J urnal f Machine Learning Research**, Volume 5

Full text available: pdf(154.18 KB)   Additional Information: full citation, abstract, index terms

Bagging frequently improves the predictive performance of a model. An online version has recently been introduced, which attempts to gain the benefits of an online algorithm while approximating regular bagging. However, regular online bagging is an approximation to its batch counterpart and so is not lossless with respect to the bagging operation. By operating under the Bayesian paradigm, we introduce an online Bayesian version of bagging which is exactly equivalent to the batch Bayesian version ...

48 Learning Bayesian network classifiers by maximizing conditional likelihood

Daniel Grossman, Pedro Domingos
July 2004   **Twenty-first international conference on Machine learning**

Full text available: pdf(187.23 KB)   Additional Information: full citation, abstract, references

Bayesian networks are a powerful probabilistic representation, and their use for classification has received considerable attention. However, they tend to perform poorly when learned in the standard way. This is attributable to a mismatch between the objective function used (likelihood or a function thereof) and the goal of classification (maximizing accuracy or conditional likelihood). Unfortunately, the computational cost of optimizing structure and parameters for conditional likelihood is pro ...

49 Using Bayesian networks to analyze expression data

Nir Friedman, Michal Linial, Iftach Nachman, Dana Pe'er
April 2000 **Proceedings of the fourth annual international conference on Computational molecular biology**

Full text available: pdf(952.91 KB)   Additional Information: full citation, abstract, references, citings

DNA hybridization arrays simultaneously measure the expression level for thousands of genes. These measurements provide a "snapshot" of transcription levels within the cell. A major challenge in computational biology is to uncover, from such measurements, gene/protein interactions and key biological features of cellular systems.

In this paper, we propose a new framework for discovering interactions between genes based on multiple expression measurements This framework buil ...

50 Industrial/government track: Clinical and financial outcomes analysis with existing hospital patient records

R. Bharat Rao, Sathyakama Sandilya, Radu Stefan Niculescu, Colin Germond, Harsha Rao
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(188.40 KB)   Additional Information: full citation, abstract, references, index terms

Existing patient records are a valuable resource for automated outcomes analysis and knowledge discovery. However, key clinical data in these records is typically recorded in unstructured form as free text and images, and most structured clinical information is poorly organized. Time-consuming interpretation and analysis is required to convert these records into structured clinical data. Thus, only a tiny fraction of this resource is utilized. We present REMIND, a Bayesian Framework for Reliable ...

Keyw rds: Bayes Nets, HMMs, data mining, temporal reasoning

51 Research centers: Database research at UT Arlington

Sharma Chakravarthy, Alp Aslandogan, Ramez Elmasri, Leonidas Fegaras, JungHwan Oh
March 2003 **ACM SIGMOD Rec rd**, Volume 32 Issue 1

Full text available: 📄 pdf(91.35 KB)   Additional Information: full citation

52 A survey on wavelet applications in data mining
Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2
Full text available: 📄 pdf(330.06 KB)   Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various
data mining processes. However, there has been written no comprehensive survey available
on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level
data-mining framework that reduces the overall process into smaller components. Then
applications of wavelets for each component are reviewd. The paper concludes by
discussing the impact of wavelets on data mining research an ...

53 Statistical methods I: Bayesian analysis of massive datasets via particle filters
Greg Ridgeway, David Madigan
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on
Knowledge discovery and data mining**
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Markov Chain Monte Carlo (MCMC) techniques revolutionized statistical practice in the
1990s by providing an essential toolkit for making the rigor and flexibility of Bayesian
analysis computationally practical. At the same time the increasing prevalence of massive
datasets and the expansion of the field of data mining has created the need to produce
statistically sound methods that scale to these large problems. Except for the most trivial
examples, current MCMC methods require a complete scan o ...

54 On the automation of physical database design
Sunil Choenni, Henk M. Blanken, Thiel Chang
March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing:
states of the art and practice**
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Keywords: Dempster-Shafer theory, generating storage schemes, modeling rules of
thumb, physical database design

55 Mining lesion-deficit associations in a brain image database
Vasileios Megalooikonomou, Christos Davatzikos, Edward H. Herskovits
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on
Knowledge discovery and data mining**
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56 Unsupervised Bayesian visualization of high-dimensional data
Petri Kontkanen, Jussi Lahtinen, Petri Myllymäki, Henry Tirri
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57 Image Retrieval: Extraction of feature subspaces for content-based retrieval using relevance feedback
Zhong Su, Stan Li, Hongjiang Zhang
October 2001 **Pr ceedings f the ninth ACM internati nal c nference n Multimedia**

Full text available: pdf(3.00 MB)   Additional Information: full citation, abstract, references, citings, index terms

In the past few years, relevance feedback (RF) has been used as an effective solution for content-based image retrieval (CBIR). Although effective, the RF-CBIR framework does not address the issue of feature extraction for dimension reduction and noise reduction. In this paper, we propose a novel method for extracting features for the class of images represented by the positive images provided by subjective RF. Principal Component Analysis (PCA) is used to reduce both noise contained in the orig ...

Keywords: Bayesian estimation, content-based image retrieval (CBIR), principal component analysis (PCA), relevance feedback

58 New direction for uncertainty reasoning in deductive databases
U. Güntzer, W. Kießling, H. Thöne
April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2
Full text available: pdf(923.93 KB)   Additional Information: full citation, references, citings, index terms

59 Efficient reasoning
Russell Greiner, Christian Darken, N. Iwan Santoso
March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available: pdf(445.41 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Many tasks require "reasoning"—i.e., deriving conclusions from a corpus of explicitly stored information—to solve their range of problems. An ideal reasoning system would produce all-and-only the correct answers to every possible query, produce answers that are as specific as possible, be expressive enough to permit any possible fact to be stored and any possible query to be asked, and be (time) efficient
Keywords: efficiency trade-offs, soundness/completeness/expressibility

60 Session 13: audio processing and retrieval: Speaker change detection and tracking in real-time news broadcasting analysis
Lie Lu, Hong-Jiang Zhang
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(273.64 KB)   Additional Information: full citation, abstract, references, citings

This paper addresses the problem of real time speaker change detection and speaker tracking in broadcasted news video analysis. In such a case, both speaker identities and number of speakers are assumed unknown. A two-step speaker change detection algorithm, including potential change detection and refinement, is proposed. Speaker tracking is performed based on the results of speaker change detection. A Bayesian Fusion method is used to fuse multiple audio features to get a more reliable result. ...

Keyw rds: audio content analysis, speaker change detection, speaker segmentation, speaker tracking

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